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LC Computing Systems Summary

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August 9, 2006

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This work was performed under the auspices of the U.S. Department of Energy by University of California, Lawrence Livermore National Laboratory under Contract W-7405-Eng-48.

LC Computing Systems Summary

System	Top50 0	Progra m	Manufactur er/ Model	OS	Interconne ct	Nod es	CPU's	Memor y (GB)	Peak GFLOP	Notes	
Unclassified Network (OCF)									116,096		
Atlas (Peloton)	TBD	M&IC	Appro	Linux	IB	1,152	9,216	18,432	44,237	1	1 Estimated availability #####
Thunder	14	M&IC	California Digit	Linux	Elan4	1,024	4,096	8,192	22,938	2	2 Estimated availability 9/18/2006
Zeus (Peloton)	TBD	M&IC	Appro	Linux	IB	288	2,304	4,608	11,059	2	3 Scheduled retirement 1/9/2007
MCR	58	M&IC	Linux Network	Linux	Elan3	1,152	2,304	4,608	11,059	3	4 Scheduled retirement #####
ALC	71	ASC	IBM xSeries	Linux	Elan3	960	1,920	3,840	9,216	5	5 Estimated availability 10/5/2006
uP	84	ASC	IBM SP	AIX	Federation	108	864	3,456	6,566	6	6 Estimated availability #####
uBG/L		ASC	IBM	Linux	IBM	1,024	2,048	512	5,734	7	7 Scheduled retirement 9/29/2006
Serial Cluster		M&IC	Appro	Linux	N/A	80	640	1,600	3,072	9	8 Scheduled retirement 8/22/2006
Sphere		ASC	Rackable System	Linux	Elan3	96	192	192	1,075	9	9 Estimated availability 9/29/2006
iLX		M&IC	RAND Federal	Linux	N/A	67	134	268	678	3	10 Estimated availability #####
GPS		M&IC	HP GS320/ES4	Tru64	N/A	33	160	356	277	4	11 Scheduled retirement 12/7/2006
Vertex		ASC	GraphStream	Linux	IB	16	32	64	128		
Snowbert		M&IC	IBM SP	AIX	Colony	8	64	32	57		
Classified Network (SCF)									524,560		
BlueGene/L	1	ASC	IBM	Linux	IBM	#####	131,072	32,768	367,002		
Purple	3	ASC	IBM SP	AIX	Federation	1,532	12,288	49,152	93,388		
Rhea (Peloton)	TBD	ASC	Appro	Linux	IB	576	4,608	9,216	22,118	5	
Minos (Peloton)	TBD	ASC	Appro	Linux	IB	288	2,304	4,608	11,059	6	
Lilac (xEDTV)	75	ASC	IBM xSeries	Linux	Elan3	768	1,536	3,072	9,186		
UM (pEDTV)	142	ASC	IBM p655	AIX	Federation	128	1,024	2,048	6,144		
UV (pEDTV)	143	ASC	IBM p655	AIX	Federation	128	1,024	2,048	6,144		
Serial Cluster		ASC	Appro	Linux	N/A	76	608	1,408	2,919	10	
Gauss		ASC	GraphStream	Linux	IB	256	512	2,048	2,458		
Ace		ASC	Rackable System	Linux	N/A	176	352	704	1,971		
Queen		ASC	Rackable System	Linux	N/A	63	126	252	706		
Ice		ASC	IBM SP	AIX	Colony	28	448	448	672	11	
Tempest		ASC	IBM Power5	AIX	N/A	12	84	480	555		
Klein		ASC	GraphStream	Linux	Elan4	10	20	40	136		
SC Cluster		ASC	HP ES45	Tru64	N/A	8	32	256	64	7	
Tidalwave		ASC	SGI Onyx2	Irix	16 IR2 Pipes	1	64	24	38	8	

Unclassified		
Capability	49,971	43%
Capacity	60,838	52%
Serial	4,084	4%
Visualization	1,203	0%
Classified		
Capability	460,390	88%
Capacity	55,323	11%
Serial	6,215	1%
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Capacity	55,323	11%
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System (Program)	Nodes	CPU's/ Node	MHz	FP	Mem/ Node	Nodes	CPU's/ Node	MHz	FP	Mem/ Node	Nodes
Atlas	1,152	8	2400	2	16						
Thunder	1,024	4	1400	4	8						
Zeus	288	8	2400	2	16						
MCR	1,152	2	2400	2	4						
ALC	960	2	2400	2	4						
uPurple	108	8	1900	4	32						
uBG/L	1,024	2	700	4	0.5						
Serial Cluster	60	8	2400	2	16	20	8	2400	2	32	
Sphere	96	2	2800	2	2						
iLX	45	2	2400	2	4	22	2	2800	2	4	
GPS	1	32	1000	2	32	16	4	1000	2	15.5	16
Vertex	16	2	2000	2	4						
Snowbert	8	8	222	4	4						
BlueGene/L	65,536	2	700	4	0.5						
Purple	1,528	8	1900	4	32	4	16	1900	4	64	
Rhea	576	8	2400	2	16						
Minos	288	8	2400	2	16						
Lilac (xEDTV)	730	2	3000	2	4	38	2	2800	2	4	
UM (pEDTV)	128	8	1500	4	16						
UV (pEDTV)	128	8	1500	4	16						
Serial Cluster	64	8	2400	2	16	12	8	2400	2	32	
Gauss	256	2	2400	2	8						
Ace	176	2	2800	2	4						
Queen	63	2	2800	2	4						
GViz	64	2	2800	2	4						
Ice	28	16	375	4	16						
Tempest	3	16	1650	4	64	9	4	1650	4	32	
Klein	10	2	3400	2	4						
SC Cluster	8	4	1000	2	32						
Tidalwave	1	64	300	2	24						

CPUs/ Node	MHz	FP	Mem/ Node	Delivery Date	LA Date	GA Date	Expected Retirement
4	667	2	4.75	Jan-04	Oct-04	Nov-04	Jan-09
				Oct-02	Aug-03	Oct-03	Oct-07
				Jan-03	TBD		Jan-08
				Apr-05	Jun-05	Jun-05	Apr-10
				May-05	Jun-05		May-10
				Sep-04	Nov-04	Nov-04	Sep-09
				Oct-02		Nov-02	
							Sep-06
				Jun-06			
				NA	NA	Mar-05	
				Nov-04	Feb-05	NA	Nov-09
				Jun-05	Oct-05	Dec-05	Jun-10
				Oct-03	11/24/03	Dec-03	Oct-08
				Sep-03	Aug-04	Aug-04	Sep-08
				Feb-04	Aug-04	NA	Feb-09
				Nov-05	Jan-06	Feb-06	
						NA	Jun-06
				Sep-00		Apr-02	
				Sep-04	Oct-04	Nov-04	Nov-09
				Jun-05			
							Sep-06
						NA	Jul-06

System	CPUs/					Mem/					CPUs/					Mem/								
	Nodes	Node	MHz	FP	Node	Nodes	Node	MHz	FP	Node	Nodes	Nodes	Node	MHz	FP	Node	Nodes							
Compass Cluster	8	10	440	2	7	1	8	500	2	16	6													
Forest Cluster	5	9.2	625	2	8																			
TC98	24	4	533	2	1																			
Sunbert	1	24	250	2	16																			
Linux Cluster (LX)	32	2	667	2	2																			
Tera Cluster 98	24	4	533	2	1	12	2	500	2	1														
Blue-Pacific (ASCI)						56	4	332	2	1.5														
Sector S	432	4	332	2	2.5																			
Sector K	488	4	332	2	1.5																			
Sector Y	488	4	332	2	1.5																			
Blue	264	4	332	2	1.5	4	4	667	2	8	32													
TC2K	124	4	667	2	2																			
Riptide	1	48	250	2	36.6																			
GPS (partial)																								
Edgewater	1	40	300	2	17.6																			
Qbert	2	10	613	2	12	32																		
SC Cluster (partial)	32	4	667	2	4																			
Adelie	128	2	2800	2	4																			
Emperor	128	2	2800	2	4																			
Frost	68	16	375	4	16																			
Whitecap	1	96	400	2	96																			
PVC	64	2	2400	2	2																			
White	512	16	375	4	16																			

CPU's/ Node	MHz	FP	Mem/ Node	Delivery Date	LA Date	GA Date	Retired
							1/31/2002
							10/1/2002
							12/15/2002
							11/26/2002
4	500	2	4				1/21/2003
				Oct-98		Mar-99	10/12/2004
							11/17/2003
							10/13/2003
				Jan-99		Feb-99	8/5/2004
				Sep-99			12/15/2004
						NA	12/31/2004
2	667	2	2				2/24/2005
						NA	3/15/2005
				NA	NA		4/8/2005
							4/29/2005
							6/15/2005
							6/15/2005
				Feb-01		Jul-01	6/30/2005
						NA	7/6/2005
				Dec-02			
				Sep-00		Apr-02	7/27/2006